



SIGNATURE ORGANIC

12% Humic Acid

SIGNATURE ORGANIC is a highly concentrated formulation of humic and fulvic acids in an aqueous form. Having the organic matter in this form allows for improved management of soil profiles where solid organic matter can cause nutritional imbalance and disease. Humic and fulvic acids provide physical, chemical and biological benefits to both soil structure and turf quality.

A sand profile is nearly void of the organic matter, which is an essential part of efficient soils. Low organic matter in sandy soils has very low capacity to store nutrients and retain water. This places the turf under undo stress increasing disease and weed susceptibility. Humic acids are important organic molecules that form naturally in soils over long periods of time. These large molecules have binding sites that will capture and store nutrients. By adding Humic Acid to any field but particularly to sandy soils, the storage capacity for nutrients can be increased dramatically. A soil that captures and stores nutrients obviously provides a superior foundation for healthy turf. The use of Signature Organic can precisely control the level of humus in the profile and provide the flexibility required to grow quality turf. Adding Humic Acids will increase the ionic exchange capacity of the sandy soils, buffer toxic salts, chemicals, excessive pH ranges and stimulate biological activity resulting in root proliferation.

Signature Organic's indirect effect on the soil can be significant. Macronutrients (eg Nitrogen) and Micronutrients (eg Iron) can be made more available to plants. Inorganic Iron compounds tend to become unstable in the soil and unavailable. Signature Organic can incorporate Iron into a readily available form, making it available for plants to uptake. Signature Organic will also help to increase Nitrogen uptake by plants and increase soil Nitrogen utilisation efficiency.

Signature Organic is capable of retaining soil nutrients in an exchangeable form to be made available to plants as required. Although often not always evident on the playing surface, research demonstrates that applications of Humic acid significantly increase photosynthesis, root enzyme activity and root mass which are the foundation of quality turf.

DIRECTIONS FOR USE: TURF

Rate: 100 - 200 mL / 100m²
Apply as required.

APPLICATION NOTES:

Tees & Greens: 6 - 10 L water / 100 m²
Fairways: 400 - 600 L water / Ha
Apply early morning or late afternoon.

PRODUCT ANALYSIS

	w/v%
Humic & Fulvic Acids <small>as Leonardite shale</small>	12.0

PRODUCT SPECIFICATIONS

S.G: 1.05
pH (Neat): 10.0 - 11.0
Appearance: Black liquid
Shelf Life: 3 years

AVAILABLE PACK SIZES & WEIGHTS

5 Litre: 5.5
20 Litre: 22.0
200 Litre: 220.0
1000 Litre: 1130.0